

## SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION

**Product identifier used on the label:** Bio-Active Super Floor Degreaser

**Other means of Identification:** ES 680C

**Recommended use of the chemical and restrictions on use:** For professional use only.

**Manufacturer/Supplier:** Charlotte Products Ltd.  
**Address:** 2060 Fisher Dr.  
Peterborough, ON K9J 8N4  
**Telephone:** (705)740-2880  
**Fax:** (705)745-1239

**24 Hr. Emergency Tel. #:** Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)

### SECTION 2 - HAZARDS IDENTIFICATION

**Classification of the chemical:**

Skin Corrosion/Irritation 2

Eye Damage/Irritation 2A

**Label elements:**

**Signal Word:** Warning

**Hazard statement(s)**

H315 Causes skin irritation  
H319 Causes serious eye irritation

**Precautionary statement(s)**

P264 Wash exposed areas thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P302+352 IF ON SKIN: Wash with soap and water  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P305+351+338  
P321 Specific treatment (see section 4 of SDS)  
P332+313 If skin irritation occurs: Get medical advice/attention  
P337+313 If eye irritation persists get medical advice/attention  
P362 Take off contaminated clothing and wash before reuse  
P501 Dispose of contents/container in accordance with local regulation

## Hazard pictogram(s)



Other hazards not otherwise classified: None Known

Unknown Acute Toxicity: 0%

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name, Common Name & Synonyms:	CAS #	Concentration %
Water	7732-18-5	30-100
Alcohols, C12-15, ethoxylates	68131-39-5	10-30
Bacteria Cultures	NA	3-10
Sodium Lauryl Sulfate	151-21-3	3-10
Sodium Citrate	68-04-2	0.5-1.5
Sodium Gluconate	527-07-1	0.5-1.5
Sodium Iminodisuccinate	144538-83-0	0.1-1.0
Propylene Glycol	57-55-6	0.1-1
Glycerin	56-81-5	0.1-1
Lipase	9001-62-1	0.1-1
Protease	9014-01-1	0.1-1
Fragrance	Mixture	0.1-1.0
Methylchloroisothiazolinone, Methylisothiazolinone	26172-55-4, 2682-20-4	<0.1
C.I. Acid Yellow 23/Proprietary	N/A	<0.1
C.I. Acid Blue 25	6408-78-2	<0.1

\*\* If the chemical name/CAS # is "proprietary" and/or the weight % is shown as a range, this information had been withheld as a trade secret.

### SECTION 4 - FIRST-AID MEASURES

#### Description of first aid measures:

**If swallowed:** Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

**If on skin (or hair):** Take off immediately all contaminated clothing. Wash with soap and water, rinse skin with water/shower. If skin irritation occurs get medical advice/attention. Wash contaminated clothing before reuse.

**If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention

**Most Important symptoms and effects, both acute and delayed:** Causes skin irritation. Causes serious eye irritation.

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically

## SECTION 5 - FIRE-FIGHTING MEASURES

### Extinguishing media:

***Suitable extinguishing media:*** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

***Unsuitable extinguishing media:*** Not determined

**Special hazards arising from the substance or mixture:** None known

**Flammability classification:** Not flammable

**Hazardous combustion products:** Carbon oxides, oxides of phosphorus other unidentified organic compounds.

### Special protective equipment and precautions for firefighters:

***Protective equipment for fire-fighters:*** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

***Special fire-fighting procedures:*** Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Methods and material for containment and cleaning up:** Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

**Special spill response procedures:** In case of a transportation accident, contact Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International). If a spill/release in the US in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Handle in accordance with good industrial hygiene and safety practice. Use protective equipment recommended in section 8. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

**Conditions for safe storage:** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep out of reach of children.

**Incompatible materials:** Oxidizing agents. Do not mix with other chemicals or cleaners

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Limits:

Chemical Name	CAS No.	TWA	STEL	OSHA	
				PEL	STEL
Alcohols, C12-15, ethoxylates	68131-39-5				
Bacteria Cultures	NA				
Sodium Lauryl Sulfate	151-21-3				
Sodium Citrate	68-04-2				
Sodium Gluconate	527-07-1				
Sodium Iminodisuccinate	144538-83-0				
Propylene Glycol	57-55-6				
Glycerin	56-81-5				
Lipase	9001-62-1				
Protease	9014-01-1				
Fragrance	Mixture				
Fragrance	Mixture				
Methylchlorisothiazolinone, Methylisothiazolinone	26172-55-4, 2682-20-4				
C.I. Acid Yellow 23/Proprietary	N/A				
C.I. Acid Blue 25	6408-78-2				

### Exposure controls:

**Ventilation and engineering measures:** Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

### Personal Protective Equipment:

**Respiratory protection:** Not required with normal use. If airborne concentrations are above the permissible exposure limit or irritation occurs, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

**Protective Measures:** For consumer use, no unusual precautions are necessary. In a work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact may require protective gloves.

**Other protective equipment:** Other equipment may be required depending on workplace standards.

**General hygiene considerations:** In an industrial work environment, avoid eye and prolonged skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Viscous Dark Blue/Green liquid

**Odor:** Floral

**Odor threshold:** No applicable information available

**pH:** 7.0-9.0

**Melting/Freezing point:** No applicable information available

**Initial boiling point and boiling range:** 100 C

**Flash point:** No applicable information available

**Flashpoint (Method):** No applicable information available

**Evaporation rate (BuAe = 1):** Similar to water

**Flammability (solid, gas):** Not flammable

**Lower flammable limit (% by vol.):** Not Flammable

**Upper flammable limit (% by vol.):** Not Flammable

**Vapor pressure:** No applicable information available

**Vapor density:** No applicable information available

**Relative density:** No applicable information available

**Solubility in water:** Dispersible

**Other solubility(ies):** No applicable information available

**Partition coefficient:** No applicable information available

**Auto ignition temperature:** No applicable information available

**Decomposition temperature:** No applicable information available

**Viscosity:** 250-400 cps

**Volatile organic Compounds (%VOC's):** 0.35 g/L

**Other physical/chemical comments:** No applicable information available

## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive

**Chemical stability:** Stable

**Possibility of hazardous reactions:** No hazardous polymerization

**Conditions to avoid:** Keep out of reach of children. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials:** Fluorine, strong oxidizing or reducing agents, bases, metals, sulfur trioxide, phosphorus pentoxide

**Hazardous decomposition products:** None known. Refer to 'Hazardous Combustion Products' in Section 5

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

**Routes of entry - inhalation:** Avoid breathing vapors or mists

**Routes of entry - skin & eye:** Avoid contact with skin or eyes

**Routes of entry - Ingestion:** Do not taste or swallow

### Potential Health Effects:

**Signs and symptoms of short term (acute) exposure:**

*Symptoms:* Please see section 4 of this SDS sheet for symptoms.

**Potential Chronic Health Effects:**

**Mutagenicity:** Not expected to be mutagenic in humans.

**Carcinogenicity:** No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects:** No applicable information available

**Sensitization to material:** No applicable information available

**Specific target organ effects:** No data available to indicate product or components will have specific target organ effects.

**Medical conditions aggravated by overexposure:** Pre-existing skin or eye disorders.

**Toxicological data:**

See the following table for individual ingredient acute toxicity data.

Chemical name	CAS #	LD <sub>50</sub>	LD <sub>50</sub>	LC <sub>50</sub>
		(Oral, rat) mg/kg	(Dermal Rat) mg/kg	(4hr, Inhal., rat)
Alcohols, C12-15, ethoxylates	68131-39-5	3,200	2,000	
Bacteria Cultures	NA	1,800		
Sodium Lauryl Sulfate	151-21-3	2,000	2,000	
Sodium Citrate	68-04-2	1,548	2,000	
Sodium Gluconate	527-07-1	2,000	2,000	
Sodium Iminodisuccinate	144538-83-0	2,000	2,000	
Propylene Glycol	57-55-6	20,000	2,000	
Glycerin	56-81-5	12,600	10,000	
Lipase	9001-62-1	2,000	2,000	
Protease	9014-01-1	1,800	2,000	
Fragrance	Mixture	3,988	3,147	
Fragrance	Mixture	1,945	2,300	
Methylchloroisothiazolinone/ Methylisothiazolinone	26172-55-4, 2682-20-4	2,630	5,000	
C.I. Acid Yellow 23/Proprietary	N/A	12,750		
C.I. Acid Blue 25	6408-78-2	1,000		

\*All empty cells no applicable information available

Other important toxicological hazards: None reported.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** No applicable information available

**Persistence and degradability:** No applicable information available

**Bioaccumulation potential:** No applicable information available.

**Mobility in soil:** No applicable information available.

**Other Adverse Environmental effects:** No applicable information available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Handling for disposal:** Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Methods of disposal:** Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste UN defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

## SECTION 14 - TRANSPORTATION INFORMATION

**US 49 CFR/DOT information:**

**UN No.:** Not Regulated

**UN Proper Shipping Name:** Not Regulated

**Transport Hazard Class(es):** Not Regulated

**Packing Group:** Not Regulated

**Special Transportation Notes:** None

**SECTION 15 - REGULATORY INFORMATION**

**TSCA information:** All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

**Canadian Environmental Protection Act (CEPA) information:** All ingredients listed appear on the Domestic Substances List (DSL).

**SECTION 16 - OTHER INFORMATION**

**Legend:**

**ACGIH:** American Conference of Governmental Industrial Hygienists  
**CAS:** Chemical Abstract Services  
**CERCLA:** Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
**CFR:** Code of Federal Regulations  
**CSA:** Canadian Standards Association  
**DOT:** Department of Transportation  
**ECOTOX:** U.S. EPA Ecotoxicology Database  
**EINECS:** European Inventory of Existing Commercial chemical Substances  
**EPA:** Environmental Protection Agency  
**HSDB:** Hazardous Substances Data Bank  
**IARC:** International Agency for Research on Cancer  
**IUCLID:** International Uniform Chemical Information Database  
**LC:** Lethal Concentration  
**LD:** Lethal Dose  
**NIOSH:** National Institute of Occupational Safety and Health  
**NTP:** National Toxicology Program  
**OECD:** Organization for Economic Co operation and Development  
**OSHA:** Occupational Safety and Health Administration  
**PEL:** Permissible exposure limit  
**RCRA:** Resource Conservation and Recovery Act  
**RTECS:** Registry of Toxic Effects of Chemical Substances  
**SARA:** Superfund Amendments and Reauthorization Act  
**SDS:** Safety Data Sheet Material Safety Data Sheet  
**STEL:** Short Term Exposure Limit  
**TOG:** Canadian Transportation of Dangerous Goods Act & Regulations  
**TLV:** Threshold Limit Values  
**TWA:** Time Weighted Average  
**WHMIS:** Workplace Hazardous Materials Identification System

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**DISCLAIMER**

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of this supplier, it is assumed that users of this material have been fully trained accordingly to the mandatory requirements of GHS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained within this form.



Date: July 12, 2016

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